(5)

BRUHAT BANGALORE MAHANAGARA PALIKE
RAJARAJESHWARINAGAR ZONE
ELECTRICAL DIVISION
DETAILED ESTIMATE FOR PUBLIC WORKS

Name of the Work: Providing M & R to Electrical installations in BBMP parks @ ward No 16 of RR Nagar

Est. No.AEE/ELE/RRNZ/ EST/ / 12-13				Job Code:			Est Amt: in RS. 100000.00
Sl No	SR ref		Description of Work	unit	Qty	Rate	Amount
	page	sl no					
1	9	20	Wiring for lighting/power circuit using one of PVC insulated 11oov grad, multis and **copper** conductor single core cable in open or consealed system of wiring.				
		I	**I Group A Materials.**				
		c	2.5 sqmm	Per Mtr.	5	25.00	125.00
		e	6 sqmm	Per Mtr.	10	52.00	520.00
2	10	25	Supplying and PVC/GI flexible conduit pipe...mm dia fixing on surface over inverted tapered wooden plugs or phill plugs or rawl plugs and clamped using heavy guage saddles at an interval of 300mm using NF screws and the either end of the pipe terminated completely.				
		a	20mm	Mtr	5	45.00	225.00
3	32	3	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers etc., Complete.				
		c	63A mps	Each	1	219.00	219.00
4	34	8	Supply and fixing of 4pole power contactor with NO/NC contacts on existing wood/Panel board using necessary bolts, nuts, washers and wiring etc., complete.				
		c	60-70Amps	Each	1	3865.00	3865.00
5	36	12	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and wiring cdomplete as required.				
			A) 5-32Amps				
		1	Group ' A'	Each	1	195.00	195.00
			F) 40-63Amps TPN				
		1	1. Group 'A'	Each	1	1495.00	1495.00
6	41	37	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. And M.S. flat... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint.				
		a	40x40x6mm	RMtr	4	240.00	960.00

AEE (Elb.)

	SR ref		Description of Work	unit	Qty	Rate	Amount
	page	sl no					
7	41	38	Fabricating supplying and mounting MS box made out... SWG suitable lfor floor/wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size cdlamps with mecessary cable entry pipe with gland and box should be finished with 2 cdoats of red oxide primer paint and finally finished with approved colour enameled metal pain etc., complete.				
		a	14SWG	SQ CM	12000	0.37	4440.00
8	43	44	Supplying and fixing Microprocessor based electronic timer (without contactor, Din mounting using necessary bolts, nuts and washers etc.,..) 3-120 sec	Each	1	2300.00	2300.00
9		28	Supplying and drawing PVC flexible unarmoured copper control cable of approved make				
		II A)	**2c x 2.5.5Sqmm**				
		1	Group A	RMt	30	96.00	2880.00
10	47	22	**Supply of Mercury vapour lamps**				
		b	125 watts	No	5	180.00	900.00
11	68	1	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipments on the meter board using 40mm dia 2.90 thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proprotion of salt and charcoal 150mm alround the pipe to complete depth. the connection form the pipe to the conduit etc, is to be established through GI wire of size as oer ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and checknuts etc, the pipe shall have 16 through holes of 12mm dia.	Each	1	1950.00	1950.00
12	68	4	Supplying of LT UG cable having aluminium conductor PVC insulated, sheathed, galvanised, steel wire/steel tap armoured cable with PVC outer sheathing 1.1 KV class				
		I	**Class 'A' PVC Dcable**				
	69	d	4 core 16 sqmm	Per Mtr	175	150.00	26250.00
13	69	5	Labour charges for laying of 1.1KV class UG calbe when supplied agency in existing trench GI pipe/ stpnewre pip / on wall / on pole as required.				
		I	**In exixting trench/duct.**				
		a	6 sqmm to 16 sqmm	Rmtr.	175	8.00	1400.00
14	70	6	Digging of trench of 0.6m deep x 0.50 mtr wide refiling the trench to the required ground level and consolidating etc., Complete. (As per Civil SR KSRB 1-2, P-7)				
		a	In soil (ordinary)	Rmtr	150	40.00	6000.00
15	70	9	Supplying and fixing of class A (medium duty) GI pipe of wall thick ness not less than 3.25mm pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class.				
		a	40mm	Rmtr	4	240.00	960.00

AEE (Elc.)

No	SR ref page	SR ref sl no	Description of Work	unit	Qty	Rate	Amount
16	75	23	Supplying and running GI/Copper conductor for grounding and (along with other wires in conduit system of wiring) using necessary suitable size clamps, nails, guttas/ spaceris etc.,				
		I	**GI wire**				
		c	8 SWG	Per Mtr	5	20.00	100.00
17	81	47	Supplying and fixing of				
		a	Spiral Earth Electrodes as per standard technical specification.	Each	5	535.00	2675.00
18	LQ		Supplying and fixing of 125W Garden Lighting prince MIDI type (Without Lamp) Make : k - Lite or equivalent	Each	5	3900.00	19500.00
19	LQ		Fabricating, supplying and erecting stepped / weleded tubular pole of height 3.5 mtr having three sections, and providing two coats of red oxide paint and finished with two coats of enameled paint of approved quality and Colour. And M.S. Base plate of size 150mm X 150 mm X 6mm thick welded at the bottom of the pole. 32mm dia GI/ Flexible PVC pipe of 1 Mtr length fitted to the existing Polycarbonate box. Control Box 1 No. of 4 way connector in case of cable looping. The pole shall be erected in cement concrete of (1:3:6) including excavation and refilling and (1;2;4) Coping. (Top 0.5 Mtr. X 2" dia, Middle 1 mtr., X 2.5" dia, bottom 2 Mtr., X 3" dia)	Each	5	3200.00	16000.00
20	5	2.3	KSRB2-2.1-EWE IN ORDINARY SOIL FOR FOUNDATION NOT EXEDING 1.5 MTR DEPTH	CUM	0.50	134.00	67.00
21	12	4.3	KSRB 4-1.3-PROVIDING & LAYING PCC M7.5 (1:4:8)	CUM	0.20	3518.00	703.60
22	12	4.6	KSRB 4-1.6-PROVIDING & LAYING PCC M15 (1:2:4)	CUM	0.10	3959.00	395.90
23	27	5.27	KSRB 5-14;PROVIDING & CONSTRUCTING SOLID BLOCK MASONRY IN SUPER STRUCTURE	SQM	1.00	652.00	652.00
			Bescom deposite & CEIG fees miscelanious				5222.50
							100000.00

1) Certified that,the work spot has been inspected by me & prepared the estimate in most economical way of executing the work.

2.) The Provisions made in the estimate are adequate and are necessary.

3.) The Work comes in the BBMP limit and is legitimate charges on the Corporation Funds.

4.) The rates in the Estimate is based on the KPWD (Elect) SR 2010-11, KPWD (CIVIL)SR 2011-12 and lowest quotation rates.

Junior Engineer(Electrical)
RR Nagar Zone
BBMP

Assistant Executive Engineer
(Elect)
RR Nagar Zone
BBMP

Executive Engineer(Elect)
RR Nagar Zone
BBMP

ADMINISTRATIVE APPROVED

Rs : one lakh only

.....is accorded

under the head : po298

By AC (R.R.N.) : 1446/12-13

Vide Register Page No. 14&15 .....subject to conditions contained in inclosed memo No. : 1446/12-13 Date : 13/2/2013

AC (R.R.N.)

Technically Sanctioned for Rs. 1,00,000

Rs. one lakh only

.....Is accorded

under the head. po298

By EE (Elect) RRN/ 65/12-13

Registered as R.R.N. No. 98/29 .....Subject to conditions contained in enclosed memo No. 65/12-13 Date. 18/2/2013

AE, (Elect) RRN

EE, (Elect) RRN